

Appl. No. 09/665,205
Amdt. dated April 28, 2004
Reply to Office Action of January 30, 2004

PATENT

REMARKS/ARGUMENTS

Amendments

The claims are modified in the amendment. More specifically, claims 1, 9 and 17 have been amended; no claims have been cancelled; and new claims 19-21 have been added. Therefore, claims 1-21 are present for examination. No new matter is added by these amendments. Applicant respectfully requests reconsideration of this application as amended.

Claim Rejections, Kangasharju et al. in view of Ahuja et al.

The Office Action has rejected claims 17 and 18 under 35 U.S.C. §102(a) as being unpatentable by the cited portions of the Non-Patent Literature, "Locating Copies of Objects Using the Domain Name System" to Kangasharju et al. (hereinafter "Kangasharju"). Further, the Office Action has rejected claims 1-4, 6-12 and 14-16 under 35 U.S.C. §103(a) as being unpatentable over Kangasharju in view of the cited portions of U.S. Patent No. 6,175,869 to Ahuja et al. (hereinafter "Ahuja"). Further still, the Office Action has rejected claims 5 and 13 under 35 U.S.C. §103(a) as being unpatentable Kangasharju in view of Ahuja and in further view of (U.S. Patent No. 6,581,090) to Lindbo et al. (hereinafter "Lindbo").

Applicants believe major limitations from amended claims 1, 9 and 17 are neither taught nor suggested in the Kangasharju, Ahuja and Lindbo references. More specifically, none of Ahuja and Lindbo teach or suggest: (1) remote content location information located with the content source as required by claim 1; (2) storing location for each of the one or more content objects stored by the content exchanges as required by claim 9; and (3) a content manager located with the content server that uses the content location information to direct a client requesting a content object as required by claim 17. Applicants respectfully request that the outstanding rejections be withdrawn for at least these reasons.

First Missing Limitation: Remote Location Information

Amended claim 1 requires remote content location information located with the content source. Kangasharju does not locate the content location information with the origin

Appl. No. 09/665,205
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PATENT

server, but distributes it on a network away from the origin server. See Kangasharju, page 3, last full paragraph through page 4, col. 1, first full paragraph. Ahuja and Lindbo use mirroring a not cacheing such that location information is unnecessary as all mirrors have the same content. See Lindbo, col. 6, lines 23-38; Ahuja, col. 4, lines 44-48. For at least this reason, reconsideration of amended claim 1 is respectfully requested.

Second Missing Limitation: Storing Location Information for Content Exchanges

Amended claim 9 requires storing location information for each of the one or more content objects stored by the content exchanges. In one embodiment, the location information database knows all the content exchanges that store a content object or a portion thereof. Kangasharju only caches location information such that each location server only knows some of the objects that might be stored on an object server. See Kangasharju, page 3, last full paragraph through page 4, col. 1, first full paragraph. As such, Kangasharju does not have a single location server that knows were all the content objects for a particular origin server might be located. Ahuja and Lindbo have to do with routing and not content location issues such that they do not teach this limitation either. Reconsideration in light of the amendment to claim 9 is respectfully requested.

Third Missing Limitation: Directing Requesting Clients Using Content Location Information

Amended claim 17 requires a content manager located with the content server that uses the content location information to direct a client requesting a content object. This claim requires a content manager integral with the content server that redirects clients. In Kangasharju, the redirection is performed by interacting with the location servers, but does not directly involve the origin server. Ahuja and Lindbo do redirection much closer to the client computer and away from the origin server. For at least this reason, reconsideration of the rejection to claim 17 is respectfully requested.

Appl. No. 09/665,205
Arndt. dated April 28, 2004
Reply to Office Action of January 30, 2004

PATENT

CONCLUSION

In view of the foregoing, Applicants believe all claims now pending in this Application are in condition for allowance. The issuance of a formal Notice of Allowance at an early date is respectfully requested.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 303-571-4000.

Respectfully submitted,

Thomas D. Franklin
Reg. No. 43,616

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, Eighth Floor
San Francisco, California 94111-3834
Tel: 303-571-4000
Fax: 415-576-0300
TDF:cmb

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